Antibodies

Mouse IgG2b, kappa Isotype Control Antibody, Clone MPC-11

Mouse monoclonal IgG2b, kappa isotype control antibody, unconjugated

Catalog	#60072	500 µg	0.5 mg/mL
	#60072.1	50 µg	0.5 mg/mL

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Product Description

The MPC-11 antibody (IgG2b, kappa) is suitable for use as an isotype-matched control antibody in several applications to estimate the degree of non-specific binding by an antigen-specific antibody. Ideally, the isotype control should have the same subclass of heavy chain (IgA, IgD, IgE, IgG, or IgM) and light chain (kappa or lambda) as the specific antibody being employed. If a conjugated antibody is employed, an isotype control conjugated to the same molecule (e.g. fluorochrome) should be chosen. The use of an appropriate isotype control helps confirm the specificity of the antigen-specific antibody and indicates non-specific binding that may result from binding to Fc receptors or other cell components. The myeloma cell line secreting the MPC-11 antibody was derived from the transplantable Merwin Plasmacytoma-11 cell line, which was induced by implantation of a plastic diffusion chamber into a BALB/c mouse. This product has unknown binding specificity, having been screened on a variety of activated, resting, live and fixed tissues from several species, including mouse, rat, human and non-human primates.

Target Antigen Name:	IgG2b Isotype Control
Alternative Names:	Not applicable
Gene ID:	Not applicable
Species Reactivity:	Not applicable
Host Species:	Mouse (BALB/c)
Clonality:	Monoclonal
Clone:	MPC-11
Isotype:	IgG2b, kappa
Immunogen:	Not applicable
Conjugate:	Unconjugated

Applications

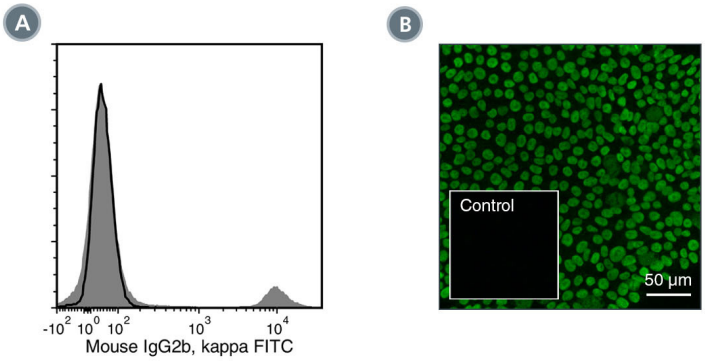
Verified:	FC
Reported:	ELISA, FA, FC, ICC, IF, IHC, IP, WB
Special Applications:	This antibody clone has been verified for use as an isotype control antibody for assessing non-specific binding to cells in flow cytometry and immunofluorescence microscopy applications (surface and intracellular staining).

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; WB: Western blotting

Properties

Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Purification:	The antibody was purified by affinity chromatography.
Stability and Storage:	Product stable at 2 - 8°C when stored undiluted. Do not freeze. For product expiry date, please contact techsupport@stemcell.com.
Directions for Use:	The suggested use of this antibody is at concentrations comparable to those of the specific antibody of interest.

Data



(A) Flow cytometry analysis of human peripheral blood mononuclear cells (PBMCs) labeled with Mouse IgG2b, kappa Isotype Control Antibody, Clone MPC-11, followed by a goat anti-mouse IgG antibody, FITC (solid line histogram). Filled histogram shows labeling with a mouse IgG2b, kappa positive control antibody (Anti-Human CD20 Antibody, Clone 2H7; Catalog #60008) followed by a goat anti-mouse IgG antibody, FITC.
(B) Human induced pluripotent stem (iPS) cells were cultured with TeSR™-E8™ (Catalog #05940) on glass coverslips coated with Vitronectin XF™ (Catalog #07180), then fixed and labeled with Mouse IgG2b, kappa Isotype Control Antibody, Clone MPC-11, followed by goat anti-mouse IgG, FITC (inset) or with a positive control antibody of the same isotype, Anti-Human OCT4 (OCT3) Antibody, Clone 3A2A20 (Catalog #60093), followed by goat anti-mouse IgG, FITC (green).

Related Products

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, please visit our website at www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.

References

1. Jafari M et al. (2014) Activities of transmitted/founder and chronic clade B HIV-1 Vpu and a C-terminal polymorphism specifically affecting virion release. J Virol 88(9): 5062–78. (FC)
2. Le Saout C et al. (2014) Chronic exposure to type-I IFN under lymphopenic conditions alters CD4 T cell homeostasis. PLoS Pathog 10(3): e1003976. (FA)
3. Reynolds A. E. et al. (2014) Natural IgM is produced by CD5- plasma cells that occupy a distinct survival niche in bone marrow. J Immunol 194(1): 231–42. (FC)
4. Wolpert F et al. (2014) A disintegrin and metalloproteinases 10 and 17 modulate the immunogenicity of glioblastoma-initiating cells. Neuro Oncol 16(3): 382–91. (FC)
5. Berger V et al. (2013) An anti-TNFR1 scFv-HSA fusion protein as selective antagonist of TNF action. Protein Eng Des Sel 26(10): 581–87. (FC)
6. Zhou H et al. (2013) Fibrinogen-specific antibody induces abdominal aortic aneurysm in mice through complement lectin pathway activation. Proc Natl Acad Sci USA 110(46): E4335–44. (FA, IHC)
7. Zhou X et al. (2013) Variation in dietary salt intake induces coordinated dynamics of monocyte subsets and monocyte-platelet aggregates in humans: implications in end organ inflammation. PLoS One 8(4): e60332. (FC)
8. Der-Petrossian M et al. (2011) Dermal infiltrates of cutaneous T-cell lymphomas with epidermotropism but not other cutaneous lymphomas are abundant with langerin + dendritic cells. J Eur Acad Dermatol Venereol 25(8): 922–27. (IF, IHC)
9. Podolin PL et al. (2008) Inhibition of invariant chain processing, antigen-induced proliferative responses, and the development of collagen-induced arthritis and experimental autoimmune encephalomyelitis by a small molecule cysteine protease inhibitor. J Immunol 180(12): 7989–8003. (FC, WB)
10. Spetz A et al. (2008) IgG regulates the CD1 expression profile and lipid antigen-presenting function in human dendritic cells via FcgammaRIIa. Blood 111(10): 5037–46. (FA/Blocking)
11. Day CL et al. (2006) PD-1 expression on HIV-specific T cells is associated with T-cell exhaustion and disease progression. Nature 443(7106): 350–54. (FA/Blocking)
12. Kumamoto T et al. (1999) Human dendritic cells express the thrombopoietin receptor, c-Mpl. Br J Haematol 105(4): 1025–33. (FC, ICC)